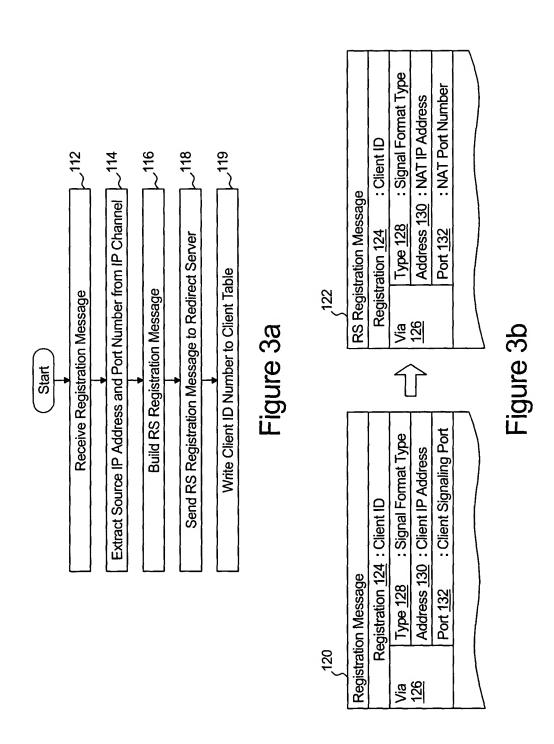


Figure 2c



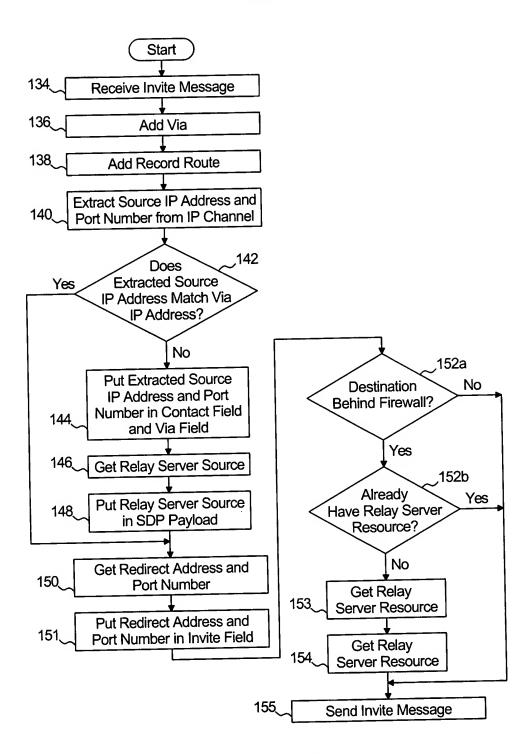


Figure 4a

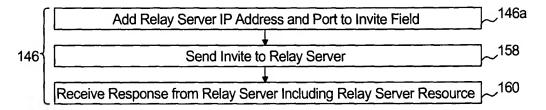


Figure 4b

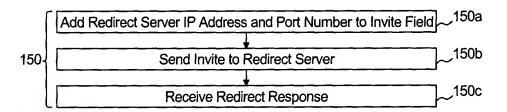


Figure 4c

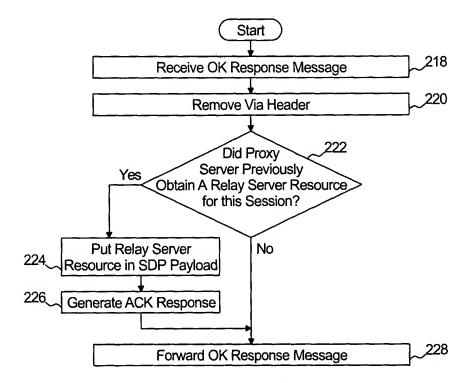


Figure 4d

Session ID 158: Unique Session ID Number

: Callee ID

: Redirect Address

: Redirect Port

Address 180 : Extracted IP Address

: Client ID

: Extracted Port

Record Route 177: Proxy Information

Relay Server IP Address 208 Relay Server Audio Port 209

Relay Server Video Port 210

Payload 184

Session Invite 156	nvite 156	Forwardir	Forwarding Invite Message 192	ge <u>192</u>
S	Session ID 158: Unique Session ID Number	S	Session ID 158: Unique	: Unique
Invite	ID 162 : Callee ID	Invite	ID <u>162</u>	: Callee
9	Address 164: Proxy 1 IP Address	160	Address 164 : Redire	: Redire
	Port 166 : Proxy 1 Signaling Port		Port 166	: Redire
Via	Type 170 : Signal Format Type	Via	Type <u>170</u>	: Signal
168	Address 172 : Client IP Address	<u>168a</u>	Address 172 : Proxy	: Proxy
	Port 174 : Client Signaling Port		Port 174	: Proxy
Contact	Type 178 : Client ID	Via	Type <u>170</u>	: Signal
176	Address 180 : Client IP Address	168	Address 172 : Extract	: Extract
	Port 182 : Client Signaling Port		Port 174	: Extract
		Contact	ID 178	: Client
	Other SIP Fleids	176	Address 180 : Extract	: Extract
SDP	Client IP Address 186		Port 182	: Extract
Payload	Client Audio Port 188	Rec	Record Route 177: Proxy	: Proxy
희	Client Video Port 190		Other SID Fields	Fields
		-		200
		SDP	Relay Server IP Addre	IP Addre

: Proxy 1 Signaling Port

: Signal Format Type : Proxy 1 IP Address : Signal Format Type

Address 172: Extracted IP Address

: Extracted Port

Figure 5b

Second Forwarding Invite Message 194						
Session ID 158: Unique Session ID Number						
Invite	ID <u>162</u> : Callee ID					
<u>160</u>	Address 164 : Callee IP Address					
	Port 166 : Callee Signaling Port					
Via	Type <u>170</u> : Signal Format Type					
<u>168b</u>	Address 172 : Proxy 2 IP Address					
	Port <u>174</u> : Proxy 2 Signaling Port					
Via	Type 170 : Signal Format Type					
<u>168a</u>	Address 172 : Proxy 1 IP Address					
	Port <u>174</u> : Proxy 1 Signaling Port					
Via	Type <u>170</u> : Signal Format Type					
<u>168</u>	Address 172 : Extracted IP Address					
	Port <u>174</u> : Extracted Port					
Contact	ID <u>178</u> : Client ID					
<u>176</u>	Address 180 : Extracted IP Address					
	Port 182 : Extracted Port					
Rea	Record Route 177: Proxy Information					
Other SIP Fields						
SDP	Relay Server IP Address 208					
Payload	Relay Server Audio Port 209					
<u>184</u>	Relay Server Video Port 210					

Figure 5c

Session ID 158: Unique Session ID Number

Session Invite 236

: Client 1 ID

ID 162

Invite 160

For	wardin	Forwarding Invite Message 246
	Š	Session ID 158: Unique Session ID Number
Invite	ite	ID 162 : Client 1 ID
160		Address 164 : Redirect Address (Proxy 1)
		Port 166 : Redirect Port (Proxy 1)
Via		Type 170 : Signal Format Type
168a	œl E	Address 172 : Proxy 2 IP Address
		Port 174 : Proxy 2 Signaling Port
Via		Type 170 : Signal Format Type
168	∞ !	Address 172 : Client 3 IP Address
		Port 174 : Client 3 Port
<u> </u>	Contact	ID 178 : Client ID
176	.	Address 180 : Client 3 IP Address
		Port 182 : Client 3 Port
	Rec	Record Route 177: Proxy Information
		Other SIP Fields
SDP	a .	Client 3 IP Address 238
Pay	Payload	Client 3 Audio Port 240
5		Client 3 Video Port 242
7		

: Client 3 Signaling Port

Address 172 : Client 3 IP Address

Type 170

Via 168

Port 166

: Proxy 2 Signaling Port : Signal Format Type

Address 164: Proxy 2 IP Address

: Client 3 Signaling Port

Port 182

Client 3 IP Address 238

Other SIP Fields

Client 3 Audio Port 240 Client 3 Video Port 242

SDP Payload 184

Address 180 : Client 3 IP Address : Client 3 ID

Type 178

Contact 176

Port 174

Figure 5d

Figure 5e

Second Forwarding Invite Message 248						
Session ID <u>158</u> : Unique Session ID Number						
Invite	ID <u>162</u> : Client 1 ID					
<u>160</u>	Address 164: Redirect Address (NAT 1)					
	Port 166 : Redirect Port (NAT 1)					
Via	Type 170 : Signal Format Type					
<u>168b</u>	Address 172 : Proxy 1 IP Address					
	Port <u>174</u> : Proxy 1 Signaling Port					
Via	Type 170 : Signal Format Type					
<u>168a</u>	Address 172: Proxy 2 IP Address					
	Port <u>174</u> : Proxy 2 Signaling Port					
Via 168	Type 170 : Signal Format Type					
	Address 172: Client 3 IP Address					
	Port 174 : Client 3 Port					
Contact	ID <u>178</u> : Client ID					
<u>176</u>	Address 180 : Client 3 IP Address					
	Port 182 : Client 3 Port					
Record Route 177: Proxy Information						
Other SIP Fields						
SDP	Relay Server IP Address 208					
Payload	Relay Server Audio Port 209					
<u>184</u>	Relay Server Video Port 210					

Figure 5f

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Second Forwarding Invite Message 254							
S	Session ID 158: Unique Session ID Number						
Invite	ID <u>162</u> : Client 1 ID						
<u>160</u>	Address 164: Redirect Address (NAT 2)						
	Port 166 : Redirect Port (NAT 2)						
Via	Type <u>170</u> : Signal Format Type						
<u>168b</u>	Address 172 : Proxy 2 IP Address						
	Port <u>174</u> : Proxy 2 Signaling Port						
Via	Type 170 : Signal Format Type						
<u>168a</u>	Address 172: Proxy 1 IP Address						
	Port <u>174</u> : Proxy 1 Signaling Port						
Via 168	Type 170 : Signal Format Type						
	Address 172 : Client 3 IP Address						
	Port 174 : Client 3 Port						
Contact	ID <u>178</u> : Client ID						
<u>176</u>	Address 180 : Client 3 IP Address						
	Port 182 : Client 3 Port						
Rec	Record Route 177 : Proxy Information						
Other SIP Fields							
SDP	Relay Server IP Address 208						
Payload	Relay Server Audio Port 209						
<u>184</u>	Relay Server Video Port 210						

Figure 5g

OK Response 230						
Session ID <u>158</u> : Unique Session ID Number						
Via	Type <u>170</u> : Signal Format Type					
<u>168b</u>	Address 172 : Proxy 2 IP Address					
	Port <u>174</u> : Proxy 2 Signaling Port					
Via Type 170 : Signal Format Type						
<u>168a</u>	Address 172 : Proxy 1 IP Address					
	Port 174 : Proxy 1 Signaling Port					
Via	Type 170 : Signal Format Type					
<u>168</u>	Address 172: Extracted IP Address					
	Port <u>174</u> : Extracted Port					
Record Route 177: Proxy Information						
Other SIP Fields						
SDP	SDP Client IP Address 186					
Payload	Client Audio Port 188					
<u>184</u>	Client Video Port 190					

Figure 6a

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OK Response <u>230</u>						
Session ID 158 : Unique Session ID Number						
Via	Type 170 : Signal Format Type					
<u>168a</u>	Address 172: Proxy 1 IP Address					
	Port <u>174</u> : Proxy 1 Signaling Port					
Via	Type 170 : Signal Format Type					
<u>168</u>	Address 172: Extracted IP Address					
	Port <u>174</u> : Extracted Port					
Record Route 177: Proxy Information						
Other SIP Fields						
SDP	SDP Client IP Address 186					
Payload	Client Audio Port 188					
Client Video Port 190						

Figure 6b

OK Response <u>230</u>						
S	ession ID <u>158</u> : Unique Session ID Number					
Via	Type 170 : Signal Format Type					
<u>168</u>	Address 172: Extracted IP Address					
	Port <u>174</u> : Extracted Port					
Record Route 177 : Proxy Information						
Other SIP Fields						
SDP	SDP Relay Server IP Address 208					
Payload Relay Server Audio Port 209						
104	Relay Server Video Port 210					

Figure 6c

ID 158: Unique Session ID Number

: Proxy 2 Signaling Port : Signal Format Type

Forwarding OK Response <u>252</u>	Session ID 158: Unique Session ID N	Via Type 170 : Signal Format Type	168a Address 172 : Proxy 2 IP Address	Port 174 : Proxy 2 Signaling Po	Via Type 170 : Signal Format Type	168 Address 172 : Client 3 IP Address	Port 174 : Client 3 Port	Record Route 177: Proxy Information	Chicin dio confo		SDP Relay Server IP Address 208	Payload Relay Server Audio Port 209	Relay Server Video Port 210				ao a infili
OK Response 250	Session ID 158: Unique Session ID Number	Via Type 170 : Signal Format Type	168b Address 172 : Proxy 1 IP Address	Port 174 : Proxy 1 Signaling Port	Via Type 170 : Signal Format Type	168a Address 172: Proxy 2 IP Address	Port 174 : Proxy 2 Signaling Port	Via Type 170 : Signal Format Type	168 Address 172 : Client 3 IP Address	Port 174 : Client 3 Port	Record Route 177: Proxy Information	ALIAN GO - AO	Outer oil Tields	SDP Client IP Address 186	Payload Client Audio Port 188	Client Video Port 190	

Figure 6e

Figure 6d

OK Response <u>256</u>						
Session ID <u>158</u> : Unique Session ID Number						
Via	Type 170 : Signal Format Type					
168b	Address 172: Proxy 2 IP Address					
	Port 174 : Proxy 2 Signaling Port					
Via	Type 170 : Signal Format Type					
<u>168a</u>	Address 172: Proxy 1 IP Address					
	Port <u>174</u> : Proxy 1 Signaling Port					
Via	Type 170 : Signal Format Type					
<u>168</u>	Address 172 : Extracted IP Address					
	Port <u>174</u> : Extracted Signaling Port					
Record Route 177: Proxy Information						
Other SIP Fields						
SDP	Client IP Address 186					
Payload	Client Audio Port 188					
<u>184</u>	Client Video Port 190					

Figure 6f

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Redirect Invite Message 214							
S	Session ID 158 : Unique Session ID Number						
Invite	ID <u>162</u>	: Callee ID					
<u>160</u>	Address 16	4: RS Address					
	Port <u>166</u>	: RS Port Number					
Other SIP Fields							
SDP Payload <u>184</u>							

Figure 7a

Redirect Response 216						
S	ession ID 158	3: Unique Session ID Number				
Contact	ID <u>178</u>	: Callee ID				
<u>176</u>	Address 18	0: Redirect Address				
	Port <u>182</u>	: Redirect Port				

Figure 7b

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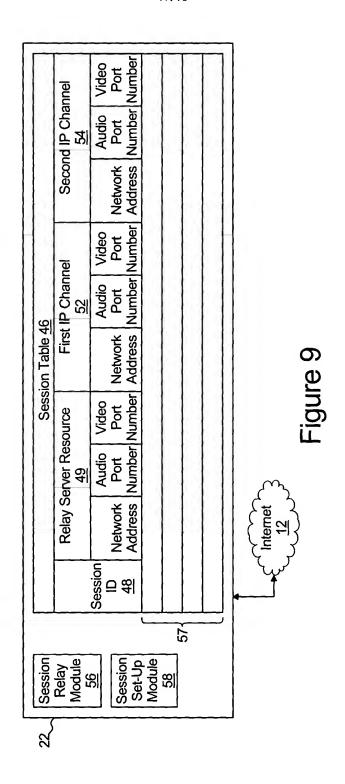
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Relay Server Invite 202		
Session ID <u>158</u>		: Unique Session ID Number
Invite 160	ID <u>162</u>	: Callee ID
	Address 164	: RS IP Address
	Port <u>166</u>	: RS Signaling Port
Via 168	Type <u>170</u>	: Signal Format Type
	Address 172	: Proxy 1 IP Address
	Port <u>174</u>	: Proxy 1 Signaling Port
Record Route 177: Proxy Information		
Other SIP Fields		
SDP Payload <u>184</u>		

Figure 8a

Relay Server Response 204		
Session ID 158 : Unique Session ID Number		
Other SIP Fields		
SDP Payload 184	Relay Server IP Address 208	
	Relay Server Audio Port 209	
	Relay Server Video Port 210	

Figure 8b



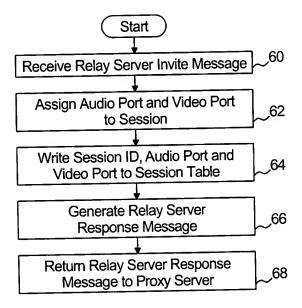


Figure 10

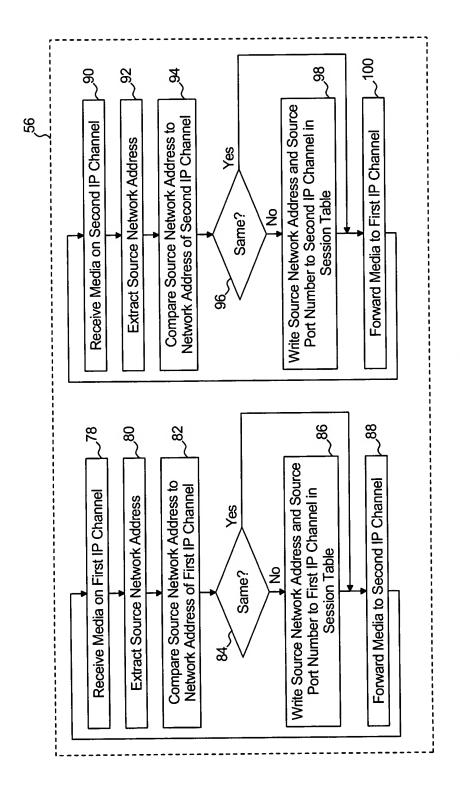


Figure 11